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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,733	12/24/2003	Tadayoshi Iijima	247101US	9687
22850 7	590 09/14/2005		EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			FLETCHER III, WILLIAM P	
	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1762	
			DATE MAILED: 00/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		4)				
	Application No.	Applicant(s)				
Office Assistant C	10/743,733	IIJIMA, TADAYOSHI				
Office Action Summary	Examiner	Art Unit				
	William P. Fletcher III	1762				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with t	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory properties of the period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNICATED FR 1.136(a). In no event, however, may a reply on.  Deriod will apply and will expire SIX (6) MONTHS statute, cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	24 December 2003.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	_					
3) Since this application is in condition for al	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice un	der Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-11 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Exa  10) ☐ The drawing(s) filed on 24 December 200.  Applicant may not request that any objection to Replacement drawing sheet(s) including the control of	3 is/are: a)  accepted or b) □ ole of the drawing(s) be held in abeyance. or or ection is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for the second seco	ments have been received. ments have been received in Apple priority documents have been rec ureau (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-94  3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 24 DEC 03.		mary (PTO-413) ail Date mal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 24 December 2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

#### **Drawings**

2. The drawings were received on 24 December 2003. These drawings are acceptable.

#### Specification

- 3. The abstract of the disclosure is objected to because: (i) it is too long; (ii) it uses phrases which may be implied; and (iii) uses reference numerals which require looking at the abstract in conjunction with a drawing or drawings, which does not permit readers to deciding whether there is a need for consulting the full patent text for details. Correction is required. See MPEP § 608.01(b).
- 4. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following: (1) if a machine or apparatus, its organization and operation;

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(2) if an article, its method of making;

- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

5. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

### Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 7. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. The term "fine" in claim 1 is a relative term which renders the claim indefinite. The term "fine" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. While the spec., provides examples of suitable particles sizes, it provides not standard or criteria by which one of ordinary skill may determine what size particles may be considered "fine" particles within the context of the invention and which may not.

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Consequently, the metes and bounds of the claimed subject matter are impossible to determine.

Claims 2-11 are similarly rejected by virtue of their incorporation of this subject matter.

9. Similarly, the term "softer" in claim 2 is a relative term which renders the claim

indefinite. The term "softer" is not defined by the claim, the specification does not provide a

standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be

reasonably apprised of the scope of the invention. Again, the spec. provides no standard or

criteria by which one of ordinary skill may determine which resins may be considered softer than

the surface of the transfer support within the context of the invention and which may not.

Consequently, the metes and bounds of the claimed subject matter are impossible to determine.

10. Similarly, the term "hard" in claim 6 is a relative term which renders the claim indefinite.

The term "hard" is not defined by the claim, the specification does not provide a standard for

ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably

apprised of the scope of the invention. Again, the spec. provides no standard or criteria by which

one of ordinary skill may determine which resins may be considered hard within the context of

the invention and which may not. Consequently, the metes and bounds of the claimed subject

matter are impossible to determine.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

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12. Claims 1, 2, 4, and 6-11 are rejected under 35 U.S.C. 102(b) as being anticipated by

Yukinobu et al. (US 5,411,792 A).

Reference is made to the 15<sup>th</sup> Embodiment, beginning at column 13.

With respect to claim 1, Yukinobu teaches a method for producing a film which

comprises a functional layer of compressed particles. The method comprises: applying

functional particles dispersed in a liquid resin onto a transfer support film, superposing the layer

of functional particles on the transfer support and a substrate to which the functional particles are

to be transferred, contacting the layer of functional particles and the substrate under pressure

(i.e., compression), and releasing the transfer support from the compressed layer of functional

particles. It is the examiner's position that Yukinobu's particle sizes of 0.1 micron or less

anticipate applicant's claimed "fine" particles (see above).

With respect to claim 2, before contact with the particles, the substrate is coated with an

uncured resin. It is the examiner's position that this uncured resin is softer than the cured resin

transfer support film (see above).

With respect to claim 4, the examiner interprets Yukinobu's silence on whether the

substrate and transfer support are deformed as a fair teaching that they are not, in fact, deformed.

With respect to claim 5, Yukinobu teaches compression using a roller.

With respect to claim 6, Yukinobu teaches that the transfer support is a (cured)

poylamide film which anticipates this support's being harder that the uncured film on the

substrate.

With respect to claim 7, Yukinobu teaches that the substrate may be a plastic plate or

plastic roll (3:56).

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With respect to claims 8-11, Yukinobu teaches that the particles are inorganic,

conductive, indium-tin-oxide (ITO) particles.

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

14. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yukinobu et

al. (US 5,411,792 A).

Yukinobu is applied again here for the same reasons as above.

This reference does not explicitly state that the particles are compressed with a force of at

least 44 N/mm<sup>2</sup>.

It is the examiner's position that the compression force is a result-effective variable

effecting the resistance value of the conductive particles. Consequently, it would have been

obvious to one of ordinary skill in the art to modify the method of Yukinobu so as to optimize

the compression force by routine experimentation, absent unexpected results demonstrating this

range to be critical. See MPEP § 2144.05.

Conclusion

15. The prompt development of clear issues in the prosecution history requires that

applicant's reply to this Office action be fully responsive (MPEP § 714.02). When filing an

amendment, applicant should specifically point out the support for any amendment made to the

disclosure, including new or amended claims (MPEP §§ 714.02 & 2163). A fully responsive

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reply to this Office action, if it includes new or amended claims, must therefore include an

explicit citation (i.e., page number and line number) of that/those portion(s) of the original

disclosure which applicant contends support(s) the new or amended limitation(s).

16. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to William P. Fletcher III whose telephone number is (571) 272-

1419. The examiner can normally be reached on Monday through Friday, 9 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William Phillip Fletcher III Patent Examiner, USPTO

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